

Unit 5 Lesson 3B | Classwork / Homework

Pick 5 sine/5 cosine to graph using transformations. Analyze each graph and write an equation using the other function. Use your own paper.

Sine

A. $y = 3 \sin(2x - 180^\circ)$

B. $y = \frac{1}{2} \sin(x + 90^\circ)$

C. $y = -2 \sin(2x + \frac{\pi}{2})$

D. $y = 3 \sin(4x + 2\pi)$

E. $y = 4 \sin(2x - \frac{2\pi}{3})$

F. $y = 3 \sin(2x - \frac{\pi}{3})$

G. $y = 3 \sin(\frac{\pi}{2}x + \pi)$

Cosine

A. $y = \frac{1}{2} \cos(4x + \pi)$

B. $y = \frac{3}{2} \cos(2x + \pi)$

C. $y = 3 \cos(2x - 180^\circ)$

D. $y = -4 \cos(2x - 90^\circ)$

E. $y = 3 \cos(2x - \frac{\pi}{3})$

F. $y = -3 \cos(3x + 90^\circ)$

G. $y = -\cos(\pi x + \frac{\pi}{2})$